United States Department of Agriculture Natural Resources Conservation Service

OMB No. 0578-0030 NRCS-PDM-20

DAMAGE SURVEY REPORT (DSR)

Emergency Watershed Protection Program - Recovery

Section 1A			IRCS Entry C			
Date of Report: 10/25/05		100	lligible: approved:	YES		NC NC
DSR Number: 019-05-017 R Project Number: Contraban	d Bayou (L13	/W/20) F		ity Number	(from Section	
Section 1B Sp	onsor Inform	ation				
Sponsor Name: Gravity Drainage Board GDD 4 W 3 in Lake Cha	rles					
Address: 1204 Laheshore Drusi						
City/State/Zip: Lake Charles, La 70601						
Telephone Number: 337-433 - 1160 Fax: 43	3-766					
Section 1C Site I	ocation Info	rmation				
County: Calcasieu Parish State: LA Co	ngressional D	District: <u>07</u>				
Latitude: Start: N 30.18217 End: N30.18015 Longitude:	Start: <u>W 93.2</u>	1867 End: <u>\</u>	W 93.22183			
Section: 19, Township: 10 S. Range: 8 W.						
UTM Coordinates:						
Drainage Name: Contraband Bayou (L-13/W-20) Reach: Rya	n Street to W-	20 Confluen	ce			
Damage Description: <u>Trees, branches and other debris in channe</u>	causing bloc	kage and inci	reased floodi	ng to home	<u>s</u>	
Section 1D	Site Evaluation	on				
All answers in this Section must be YES in order to be eligible fo	r EWP assista	nce.				
Site Eligibility	YES	NO		Remark	s	
Damage was a result of a natural disaster?*	X		Hurricane Rita	wind and sto	rm damage	

Site Eligibility	YES	NO	Remarks
Damage was a result of a natural disaster?*	X		Hurricane Rita wind and storm damage
Recovery measures would be for runoff retardation or soil erosion prevention?*	X		Reduce upstream flooding, streambank erosion, and scour erosion
Threat to life and/or property?*	X		Reduce flooding upstream of channel blockage where homes and school is located
Event caused a sudden impairment in the watershed?*	X		Hurricane deposited debris in channel that will likely cause flooding after next major rainfall event
Imminent threat was created by this event?**	X		Flood damage to homes and school likely after next major rainfall event.
For structural repairs, not repaired twice within ten years?**	X		No evidence of repairs to pipes culverts or roads in past several years
Site Defensibility	TEN SE		The state of the s
Economic, environmental, and social documentation adequate to warrant action? (Go to pages 3, 4, 5 and 6 ***)	X		See attached documentation
Proposed action technically viable? (Go to Page 9 ***)	X		See attached documentation

Have all the appropriate steps been taken to ensure that all segments of the affected population have been informed of the EWP program and its possible effects? YES X NO NO

Comments: Local Gravity Drainage Board has been notified

^{*} Statutory

^{**} Regulation

^{***} DSR Pages 3 through 6 and 9 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this form, add appropriate pages. I of 14

	Section 1	E Proposed Action
Describe the prefe	rred alternative from Findings: Section 5	A:
Total installation c	cost identified in this DSR: Section 3: \$	
	Section 1F NRCS Sta	te Office Review and Approval
Reviewed By:	State EWP Program Manager	Date Reviewed:
Approved By:		Date Approved:

State Conservationist

DSR NO:

PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief or NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies. IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

USDA NONDISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, martial status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programms.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202)720-2600 (vocie and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW., Washington, DC 20250-9410, or call (800)795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 of the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

Section 2 Environmental Evaluation

2A Resource	2B Existing	2C Alternative Designation			
Concerns	2B Existing Condition	Proposed Action	No Action	Alternative	
		21	D Effects of Alternativ	85	
Soil			D Lifects of Alternativ		
Water					
Downstream					
water rights					
Air					
Plant					
Animal					
Other					
Juici					

	DSR NO:	
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Section 2E Special Environmental Concerns

Resource	Existing Condition	E Special Environme	Alternatives and Effects	
Consideration	Laisung Condition	Proposed Action	No Action	Alternative
Consideration		r roposed Action	INO ACTION	Anemauve
Clean Water Act				
Waters of the U.S.				
waters of the o.s.				
Coastal Zone				
Management Areas				
Wanagement 7 ireas				
Coral Reefs				
Colul ICCIS				
Cultural Resources				
Cultural Resources				
Endangered and				
Threatened Species				
Environmental				
Justice				
- Custice				
Essential Fish				
Habitat				
Fish and Wildlife				
Coordination				
Floodplain				
Management				
Invasive Species				
•				
Migratory Birds				
-				
Natural Areas				
Prime and Unique				
Farmlands				
Riparian Areas				
Scenic Beauty				
Wetlands				
Wild and Scenic				
Rivers				

Completed By:	D	Date:	
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DSR NO: _	
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Section 2F Economic

This section must be completed by each alternative considered (attach additional sheets as necessary).

	Future Damages (\$)	Damage Factor (%)	Near Term Damage
			Reduction
Properties Protected (Private)			
Durantina Duranta d (Dublia)			
Properties Protected (Public)			
Business Losses			
Other			
	Total Nam Tarra Da		
N. D. C. (T. 11)	Total Near Term Dar		
Net Benefit (Total Near Term Da	amage Reduction minus Cos	st from Section 3)	

Completed By: Date:

Section 2G Social Consideration This section must be completed by each alternative considered

(attach additional sheets as necessary).

	YES	NO	Remarks
Has there been a loss of life as a result of the watershed impairment?			
Is there the potential for loss of life due to damages from the watershed impairment?			
Has access to a hospital or medical facility been impaired by watershed impairment?			
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)			
Is there a lack or has there been a reduction of public safety due to watershed impairment?			

Completed By	·:	Date:	

DSR NO:

Section 2H Group Representation and Disability Information

This section is completed only for the preferred alternative selected.

This section is completed only for the preferred	a aiternative percetear
Group Representation	Number
American Indian/Alaska Native Female Hispanic	
American Indian/Alaska Native Female Non-Hispanic	
American Indian/Alaska Native Male Hispanic	
American Indian/Alaska Native Male Non-Hispanic	
Asian Female Hispanic	
Asian Female Non-Hispanic	
Asian Male Hispanic	
Asian Male Non-Hispanic	
Black or African American Female Hispanic	
Black or African American Female Non-Hispanic	
Black or African American Male Hispanic	
Black or African American Male Non-Hispanic	
Hawaiian Native/Pacific Islander Female Hispanic	
Hawaiian Native/Pacific Islander Female Non-Hispanic	
Hawaiian Native/Pacific Islander Male Hispanic	
Hawaiian Native/Pacific Islander Male Non-Hispanic	
White Female Hispanic	
White Female Non-Hispanic	
White Male Hispanic	
White Male Non-Hispanic	
Total Group	
Census tract(s)	
Completed By: D	ate:

DSR NO:						
Section 3 Engineering Cost Estimate						
	Date:					

This section must be completed by each alternative considered (attach additional sheets as necessary).

Completed By: _____

Quantity	Units	Unit Cost (\$)	Amount (\$)
Total Inc	tallation Cost (Ent	ear in Section 1E\\$	
			Quantity Units Unit Cost (\$)

Unit Abbreviations:

AC Acre
CY Cubic Yard
EA Each
HR Hour
LF Linear Feet

LS Lump Sum
SF Square Feet
SY Square Yard
TN Ton
Other (Specifiy)

DSR NO:

Section 4 NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application (see instructions on page 10).

Priority Ranking Criteria	Yes	No		Ranking Number Plus Modifer
1. Is this an exigency situation?				
2. Is this a site where there is serious, but not immediate threat to human life?				
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?				
4. Is this site a funding priority established by the NRCS Chief?				
The following are modifiers for the above criteria			Modifier	
a. Will the proposed action or alternatives protect or conserve federally-listed				
threatened and endangered species or critical habitat?				
b. Will the proposed action or alternatives protect or conserve cultural sites				
listed on the National Register of Historic Places?				
c. Will the proposed action or alternatives protect or conserve prime or important farmland?				
d. Will the proposed action or alternatives protect or conserve existing wetlands?				
a. Will the proposed action or alternatives maintain or improve current water quality conditions?				
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?				

Enter	priority	com	putation	in	Section	1A.	. NRCS	Entry	Funding	priority	number.

DSR NO: <u>019-05-017R</u>

Section 5A Findings

Finding: Indicate the preferred alternative from Section 2 (Enter to Section 1E):

I have considered the effects of the action and the alternatives on the Environmental Economic, Social; the Special Environmental Concerns; and the extraordinary circumstances (40 CFR 1508.27). I find for the reasons stated below, that the preferred alternative:
X_ Has been sufficiently analyzed in the EWP PEIS (reference all that apply) Chapter5.2.2.1.2 Chapter
The action will be referred to the NRCS State Office on this date:
NRCS representative of the DSR team Charles Stephen Tully Date: 10/25/05
Section 5B Comments: Disposal site will be determined in cooperation ith
Section 5C Sponsor Concurrence:
Sponsor Representative
Title: Michael L-Wittle Date: 11/01/05
Section 6 Attachments: A. Location Map B. Site Plan or Sketches C. Other (explain) - North of Orchard work must be done from the east side. - South of Orchard work can be done from either side. - all locations will be re-stored, as near as possible, to Approved 7/2005 pre-storm conditions.

INSTRUCTIONS FOR COMPLETING THE NRCS-PDM-20, DSR

	Explanation of Requested Item	Who Completes
Section 1	Enter Site Sponsor, Location, Evaluation, Selected Alternative, and	NRCS completes
	Reviewed and Approval Signatures.	with voluntary
1A	Enter the Date, DSR Number, Project Number. For NRCS only enter	assistance from
	Eligible Yes/No, Approved Yes/No, Funding Priority Number, and	Sponsor except for
	Limited Resource Area Yes/No.	NRCS only portion
1B	Enter Sponsor Name, Address, Telephone, Fax	of Section 1A.
1C	Enter site location County, State, Congressional District, Latitude,	
	Longitude, Section, Township, Range, UTM Coordinates, Drainage	
	Name, Reach within drainage, and Damage Description.	
1D	Enter Yes/No and any Remarks for the Site Evaluation information.	
	Any No response means the site is not eligible for EWP assistance	
	and no further information is necessary to complete the DSR. (See	
	NEWPPM 390-502.03 and 390-502-04)	
	Enter Yes/No regarding whether the affected public has been	
	informed of the EWP program.	
1E	Enter the proposed treatment and the cost of installation.	NRCS only.
1F	NRCS Review and Approval.	

	Explanation of Requested Item	Who Completes
Section 2	Use available natural resource, economic, and social, information,	NRCS completes
	including the EWP Programmatic Environmental Impact Statement	with voluntary
	(PEIS), to <u>briefly</u> describe the effects of the alternatives to the	assistance from
	proposed action including the "no action" alternative.	Sponsor.
	Typically, the proposed action and no action are the alternatives	
	considered for EWP recovery measures due to the focus on repairing	
	or preventing damages within a watershed. However, in cases where	
	additional alternatives are considered, include all pertinent	
	information to adequately address the additional alternatives (e.g.,	
	proposed action would be bio-engineering for bank stabilization, no	
	action alternative, and an additional alternative may be riprap for	
	bank stabilization).	
	Do not leave blanks where a consideration is not applicable, use NA	
	to indicate the factor was considered but not applicable for the	
	alternative.	
2A	List all resource concerns which are relevant to the area of the	
	proposed action and alternatives. Refer to National Bulletin 450-5-8	
	TCH-COMPLETING AND FILING MEASUREMENT UNITS	
	FOR RESOURCE CONCERNS IN THE FIELD OFFICE	
	TECHNICAL GUIDE (FOTG). Note: the affected area may extend	
	beyond the construction foot print (ex. where water quality or water	
	rights are affected downstream of the site).	
2B	Provide a brief description of the present condition of each resource	
	concern listed in 2A. Quantify conditions where possible. Reference	
	accompanying photo documentation.	
2C	Briefly summarize the practice/system of practices being proposed,	
	as well as the "no action" alternative, and any other alternatives	
	being considered. The "no action" alternative is the predicted future	
	condition if no action is taken.	
2D	Document the efforts of the proposed action and alternatives for the	
	considerations listed in 2A. Reference applicable quality criteria,	
	information in the CPPE, and quantify effects whenever possible.	
	Consider both long-term and short-term effects. Consider any effects	
	which may be individually minor but cumulatively significant at a	
	larger scale or over an extended time period. Clearly define the	
	differences between proposed action, no action, and the other	
	alternatives.	

2E	Enter Special Environmental Concerns for Clean Water Act Waters of the U.S., Coastal Zone Management Areas, Coral Reefs, Cultural Resources, Endangered and Threatened Species, Environmental Justice, Essential Fish Habitat, Fish and Wildlife Coordination, Floodplain Management, Invasive Species, Migratory Birds, Natural Areas, Prime and Unique Farmlands, Riparian Areas, Scenic Beauty, Wetlands, and Wild and Scenic Rivers for each alternative considered. In the case where the selected alternative from Section 5A impacts a Special Environmental Concern, additional information, coordination, permitting or mitigation may be required and adequate documentation should be prepared and attached to the DSR to identify how NRCS or the Sponsor addressed the concern	
2F	Identify Property Protected both private and public, business losses and other economic impacts considered for each alternative. Enter the dollar value of the potential future damages if no action is taken in the Future Damage (5) column. This would be the estimate of the value lost if the EWP recovery measure is not installed. Use the repair cost or damage dollar method to determine the estimate of future damages. The repair cost method uses the costs to return the impaired property, good, or services based on their original pre-event condition or value. The damage dollar method uses an estimate of the future damage to value (e.g. if the structure is condemned, then enter the value of the structure). Enter the estimated amount based upon existing information or information furnished by the sponsor, contractors or others with specific knowledge for recovery from natural disasters for each alternative considered. Often market values for properties or services can be obtained from personnel at the local county/parish tax assessment office. The DSI team needs to determine the Damage Factor (%) which is a coefficient that indicates the degree of damage reduction to a property that is attributed to the effect of the proposed EWP recovery measures. Use an appropriate estimate of how much of the damage the EWP recovery measure will avoid for the alternative being considered. If the recovery measures from a single site will prevent 100 percent of the damage use 100 percent. The Near Term Damage Reduction is the Future Damage (\$) times the Damage Factor (%). Sum the Near Term Damage Reduction. Enter the Net Benefit which is computed by subtracting the Cost from section 3 from the total near term damage reduction. The economic section must be completed for each alternative considered. Attach additional sheets as necessary.	
2G	Enter information to describe the potential social impacts and considerations for each alternative. Answer Yes or No and any remarks necessary to adequately address each question. The information may be obtained through interviews with community leaders, government officials or sponsors. Factors such as road closures, loss of water, electricity, access to emergency services are used when answering whether the community as a whole has been impaired. This information is part of the environmental evaluation portion of the DSR but may be pertinent in Section 4 regarding priorities. The Social Considerations Section must be completed for each alternative considered. Attach additional sheets as necessary.	
2Н	Enter the Group Representation Information for the preferred alternative. Use the most recent census tract information based upon where the EWP recovery measures are located.	Sponsor completes.

2I	Enter whether easement, permissions, or permits, and mitigation will	NRCS completes
	require consultation or coordination for the selected alternative (e.g.,	with voluntary
	Clean Water Act section 404 permit, Endangered Species Act	assistance from
	section 10 permits, and any State or county permits or requirements).	Sponsor.
	Describe mitigation to be applied that will offset any adverse	1
	impacts and attach any documentation from other agencies regarding	
	mitigation requirements.	
	Explanation of Requested Item	Who Completes
Section 3	Enter Proposed Recovery Measure(s) including Quantity, Units, Unit	NRCS completes
Section 5	Cost, and Total Amount Cost.	with voluntary
	Enter sum of all Proposed Recovery Measure Costs to calculate	assistance from
	Total Costs. Enter Total Installation Costs in Section 1F.	Sponsor.
	The Engineering Cost Estimate must be completed for each	~F
	alternative considered. Attach additional sheets as necessary.	
	Explanation of Requested Item	Who Completes
Section 4	This section is used to determine the Funding Priority for the	NRCS completes
	preferred alternative and sequence for initiating recovery measures.	with voluntary
	Enter Yes/No for questions 1 through 4 and enter the number	assistance from
	(exigency 1, serious threat to human life 2, etc.) in the right column,	Sponsor.
	Ranking Number Plus Modifier. Complete the Modifier portion by	
	placing the alphabetic indicator a. through f. in the Modifier column.	
	Complete the Ranking Number Plus Modifier column by entering	
	the alphabetic indictor(s) that exists within the site. The number of	
	the site designates the priority (e.g., a site with a designation of 2 is a	
	higher priority that a site with a designation of 3). The modifiers	
	increase the priority for the same numeric site (e.g., a site with a	
	designation of 1 a site with a designation of 2 he would be a higher	
	designation of 1, a site with a designation of 2bc would be a higher priority than a site designated as 2b). Enter the Funding Priority in	
	Section 1A.	
	Beetion 17.	
	Explanation of Requested Item	Who Completes
Section 5	Enter the Findings, Rationale Supporting Findings, NRCS	NRCS completes.
	Representative signature and Comments, and Concurrence signature	
	by the Sponsor(s).	
5A	Indicate the preferred alternative and check the applicable finding	
	being made. The NRCS Representative signs indicating the Finding	
	selected. If the proposed action was adequately addressed in the	
	PEIS, check all appropriate chapter paragraphs.	
FD.	Enter any additional Comments.	
5B		Change
5B 5C	Sponsor(s) review and concurrence.	Sponsor(s)
	Sponsor(s) review and concurrence.	Sponsor(s) signature.
	Sponsor(s) review and concurrence. Include attachments for location map, site sketch or plan and other	

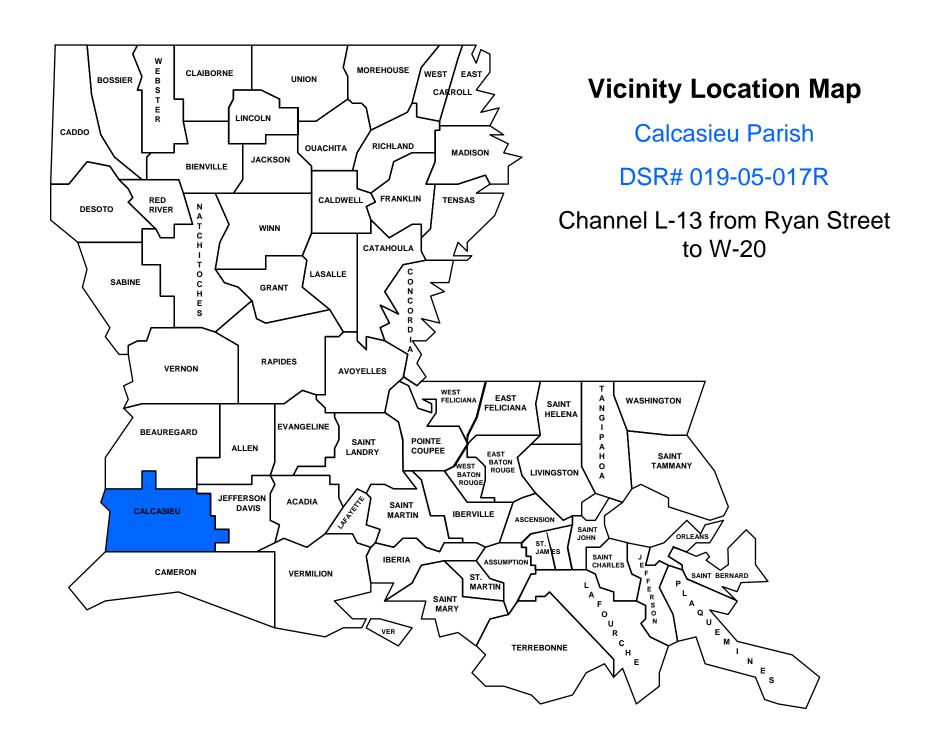
information as needed.

with voluntary assistance from

Sponsor.

SECTION 6

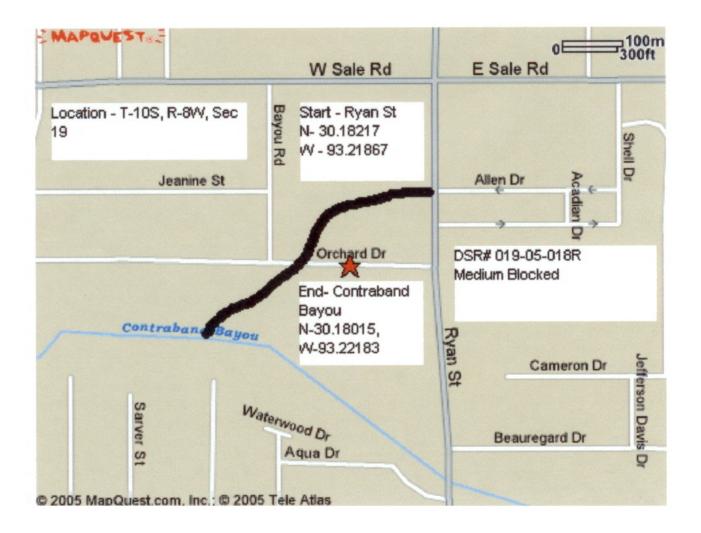
ATTACHMENTS



SITE MAP DSR 019-05-017R

Channel 1-13 from Ryan Street to W-20 Calcasieu Parish

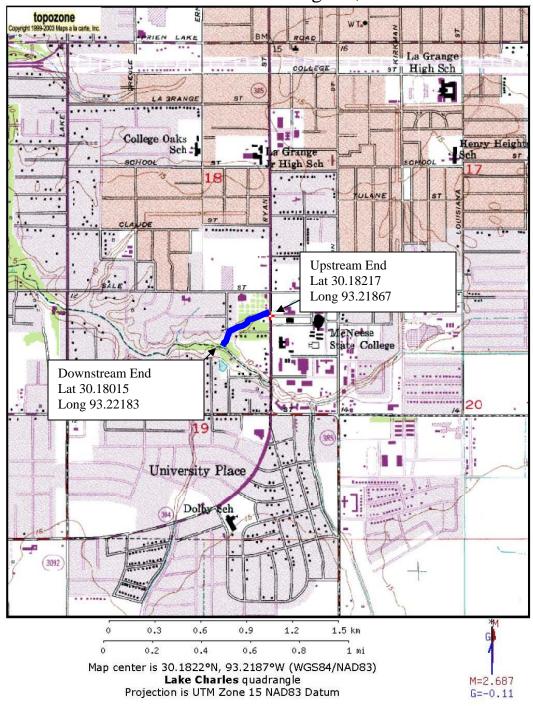
Estimated Reach Length 1,500 LF



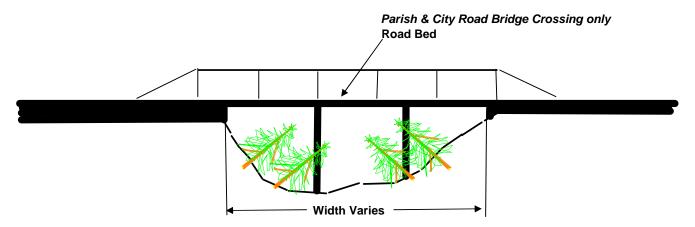
TOPO MAP DSR 019-05-017R

Channel 1-13 from Ryan Street to W-20 Calcasieu Parish

Estimated Reach Length 1,500 LF



Debris Removal

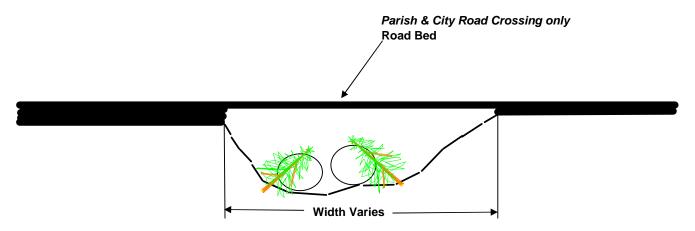


Note: Contract is to remove Debris from upstream and downstream Bridge which includes underside of bridge **Exception:** All Crossing which cross State or Federal highways are not included in contract

Typical Road Bridge Crossing Not to Scale

Notice: 48 Hours Before Digging Call 1-800-272-3020

Debris Removal



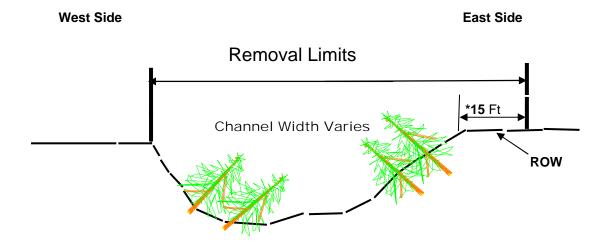
Note: Contract is to remove Debris from upstream and downstream Culverts which includes inside of culverts **Exception:** All Crossing which cross State or Federal highways are not included in contract

Typical Road Culvert type Crossing Not to Scale

Notice: 48 Hours Before Digging Call 1-800-272-3020

DSR No:019-05-017R Channel: L-13 from Ryan Street to W-20 PARISH/SPONSOR: Gravity Drainage District #4

Debris Removal Typical Section North of Orchard Street



Typical Section Not to Scale

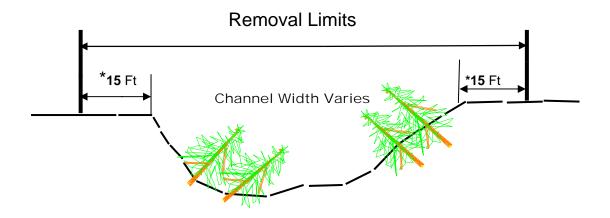
Notice: 48 Hours Before Digging Call 1-800-272-3020

*Note: Right of way on east side only north of Orchard Street

Exception it may be possible that trees which were located outside of the the right of way may have fallen into the right of way, these trees will be removed which may be located outside of the work limits.

DSR No:019-05-017R Channel: L-13 from Ryan Street to W-20 PARISH/SPONSOR: Gravity Drainage District #4

Debris Removal Typical Section South of Orchard Street



Typical Section Not to Scale

Notice: 48 Hours Before Digging Call 1-800-272-3020

*Note: Rights of way on both sides south of Orchard Street

Exception it may be possible that trees which were located outside of the the right of way may have fallen into the right of way, these trees will be removed which may be located outside of the work limits.

DSR No:

019-05-017R

Selected Alternative

Calcasieu Parish

Channel L-13, From Ryan Street to confluennce with W-20 at 200'

Section 5 Engineering Cost Estimate Worksheet

North of Monticello Street

Completed By: Daniel D. Claussen

Date: 25-Oct-05

Type of Work:

Debris Removal

Location of Work:

Township(s) 105

Range(s) **8W**

Section(s) 19

Quadrangle(s)

Lake Charles

Ryan St

W-20 Confluence

Latitude

Longitude

Latitude

Longitude

Downstream Start:

Latitude Longitude 30.18217 93.21867

30.18015

93.22183

Estimated Length of Work Segment (ft):

1,500

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	\$4,000.00	\$4,000
2	Channel Obstruction Removal	1,500	LF	\$19.75	\$29,625
3	Seeding, Sprigging and Mulching	1	AC	\$200.00	\$200
4					\$0
5					\$0

Note: Estimated cost of debris removal includes labor and hauling of material to landfill.

Total Estimated Construction Cost

\$33,825

Performance Time:

Production Rate

Segment Length

Production Time

Contract Time

750 Ft/Day

1,500 Ft

2.00 Days

Days

Estimated Cost of Equipment with Labor

(Per Mike Kennedy's Email 09/22/04)

Cost per LF

Description of Work: Medium

\$19.75

Estimated Cost of Seeding with Labor

Segment Length 1,500 Ft. Segment Width 15 Ft.

No.of Segment

Acres

Cost per Ac

\$200

Total Cost \$200

Comments:

Selected Alternative involves both sides of channel and 15 ft. of top bank and removing only debris obstructing channel section, NOT floodplains. Measured 15' from Centerline to either side. All removed material will be hauled away. Heavy residental area allows for easy access of channel, Care must be maintained to mitigate any surrounding damage to residential area. Alternative method involves use of air assets, chipping or leaving logs in floodplain not permitted.

Channel Obstruction Evaluation

SITE INFORMATION							
Parish: Calcasier	Site:	rehard Drive					
City: Lake Charles							
Sponsor: COO 9 W3	Reach:	From - RYAN Street					
Date: 250c+ 05		To- W-20 Con Place					
Evaluation Team: CLAUSSEN, Tullen							
, ,							

PHO	TO NUMBERS AND BRIEF DESCRIPTION	WAYPOINTS (CIRCLE location and record in Decimal Degrees
Photo #	Description	Start Work (D/S end) N 30, 18015
	See Attach ment	Midstream End Work (U/S end) W 93, 22/87

	NEARBY AND UPSTREA (Fill in Numbers, Valu				
CHURCHES	SCHOOLS		PUBLIC F.	ACILITIES	
No. of Churches	No. of Public Facilities	0			
HOME	SITES		BUSINESSE	S	
No. of Homesites		No. of Businesses		O	
Average Value of Homes (X \$1,000	,000) ZOO,000 Size of Businesses S M				И L

STREAM CROSSINGS (CIRCLE type and write material, size and length							
TYPE	MATERIAL	NUMBER, SIZE, & LENGTH					
Bridge	Conerde	1- 100' x 40' - concreh					
Culverts	Concrole	2 - 61- 401					
Other or None							

	UTILITIES (CHECK the location of the utilities in the area		ion)
	Overhead (Power, Cable, etc.)	U/S	D/S
	Buried (Gas, Sewer, water, etc.)	U/S	D/S
	Elevated Cross channel (Water, Gas, etc.)	U/S	D/S
Remarks: / VOW	SPERN		

	CHANNEL CHARACTERISTICS (CHECK appropriate box for slope and fill in dimensions information				FLOW			
	SLOPES	DIMENSIO	NS			Is Water Flowing?		
×	1.5 : 1 or steeper	Top Width (ft.)	30	(YES	NO		
	1.5 : 1 through 3 : 1 Slope	Bottom Width (ft.)	10		Is deb	ris accumulating? (i.e. Leaves, Trash)		
	Flatter than 3 : 1	Depth (ft.)	5		YES	NO		

		(CHECK the I	oxes as nee	eded, and CIRCLE	the size of deb	oris that applies)		
DEBBIG	IN	ACROSS		SIZE OF DEBRI	C	BLOCK	AGE	
DEBRIS	CHANNEL	CHANNEL	SIZE OF DEBRIS			% of X-Section Obstructed:		
Pine Trees	×	×				Less than 25%	26%-50%	
Hardwoods	X	X	Light	Moderate	Heavy	(51%-75%)	76%-100%	
Shrubs	X	\times				3170-7370	7070 10070	

建筑建设	WORK METHOD AND LOCATION
学型装置	(CHECK the box that best applies,
	Within Channel Floating Equipment (i.e. Barge or Marsh Buggy)
	Within Channel Non - Floating Equipment (Excavator/Track-hoe, Spider, etc)
\times	From Top Banks
AC	CCESS TO SITE (Explain access issues and possible difficulties)
Urban S	Site, access win streets that parallel chand, all residue hard away

Stream Visual Assessment Protocol

Owners name DSR 019 -0	S-017R Evaluator's name	PLINT SYSTE	Date 10/22/05
Stream name CANTRA RAW!	D BAYOU (L-13 W-20) Wate	rbody ID number	1 1
Reach location RYNW 5mg	TIW SOWALLIAMOD OF FEB	JOSEPHIAGE OS-ON F	CANAL
	Posterior and	O	.,
Applicable reference site	Drainage area	Gradient	· · ·
10 - T - T - T - T - T - T - T - T - T -	rop hayland grazing/pastur	e forest 7,0% reside	ntial 10%
	perations Cons, Reserve		
Weather conditions-today WARM		-5 days warm leage	
	Dominant substrate: boulder_	gravel sand	_ silt mud _X
Site Diagram	RO, RWW ST. ST. 20 CAWAL		

/	Assessment Scores	8000000	EXIZIME	Propose		
	Channel condition 3	[P]	Pools	\square		
	Hydrologic alteration 3	回	Invertebrate habitat	[2]		
	Riparian zone 5	3	Score only if applicable			
	Bank stability		Canopy cover			
	Water appearance	[2]	Manure presence			
	Nutrient enrichment		Salinity			
	Barriers to fish movement 2	2	Riffle embeddedness			
	Instream fish cover	2	Marcroinvertebrates Observed (optional)	1		
		÷.	•			
Overall score (Total divided by number scored) 26/10 2.6 EXISING <6.0 Poor 6.1-7.4 Fair 27/10 2.7 PROPOSE 7.5-8.9 Good >9.0 Excellent						
		4 7 7 12 1				
Suspected causes of observed problems L-13 15 A MAN MADE DITCH WITH HONGS						
AND BUSINESS ON BOTH SIDES IN MOST PUNCES. HOWOURS THE UPPER END DOES HAVE A PRESENT FOREST BUPPER ONE STRUCKS ONES BUPPER AND SOCIETY OF THE STRUCKS OF THE						
THE WHITE PLANT TO BUT HOUR HAVE BUT COLORS BUFFER.						
-	* *	AINSTOR	D SWONG SWEN OF BU	OU: MANY I MORTORE		
HERE BROCKING THE DITCH HOW ON OF LIFE TENETH.						
Recommendations						
ROMANNIC TOESS AND PLASTER THAN IT WILL						
TO WORDS OF SURAN CHA CONANCELL AD						
HOUSES						
_						
_						
_						